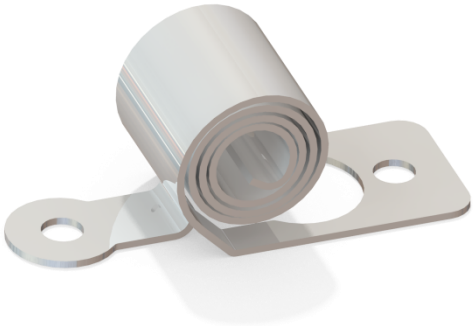
GUARDIAN
FALL PROTECTION
PERFORMANCE SAFETY GEAR



Absorbinator &
Absorbinator Kits

USER'S MANUAL

DO NOT THROW AWAY THESE INSTRUCTIONS!
READ AND UNDERSTAND BEFORE USING EQUIPMENT!

GUARDIAN FALL PROTECTION
PERFORMANCE SAFETY GEAR

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INTRODUCTION:

Thank you for purchasing the Guardian Absorbinator. This manual should be read and understood in its entirety, and used as part of a training program as required by OSHA or any applicable state regulatory agency.

This and any other included instructions must be made available to the users of the equipment. The user must understand the proper equipment use and limitations.

This manual covers the maintenance, installation, and use of the Guardian Absorbinator and Guardian Absorbinator Kits.

GUARDIAN FALL PROTECTION
PERFORMANCE SAFETY GEAR

INTRODUCTION continued:

This manual covers:

Part #15021	Absorbinator
Part #15044	Absorbinator Kit
Part #15045	Absorbinator Deluxe Kit
Part #15070	Absorbinator Kit with two 6' Premium Cross Arm Straps
Part #15071	Absorbinator Kit with two CB-1-Bs
Part #15072	Absorbinator Kit with two CB-1-Ws
Part #15073	Absorbinator Deluxe Kit with two 6' Premium Cross Arm Straps
Part #15074	Absorbinator Deluxe Kit with two CB-1-Bs
Part #15075	Absorbinator Deluxe Kit with two CB-1-Ws

USER INFORMATION:

Date of First Use _____

Serial # _____

Trainer _____

User _____

Please fill this box out for your records.

GUARDIAN FALL PROTECTION
PERFORMANCE SAFETY GEAR

WARNING!

- **DO NOT alter the equipment unless approved by manufacturer.**
- **DO NOT misuse the equipment.**
- **DO NOT use combinations of components or subsystems that may affect or interfere with the safe, compatible function of each other.**
- **DO NOT expose the equipment to chemicals that may produce a harmful effect or degrade the equipment. Consult manufacturer in cases where doubt exists.**
- **DO NOT use the equipment around moving machinery or electrical hazards unless specifically designed for such use.**
- **DO NOT use the equipment around sharp edges or abrasive surfaces unless intended for such use.**

GENERAL SYSTEM SELECTION CRITERIA:

Selection of fall protection shall be made by a Competent Person*. All fall protection equipment shall be purchased new and unused.

The equipment is designed for use as a part of a personal fall protection system. Components shall not be used for any other operation other than that which it has been designed and approved.

Consult a doctor if there is any reason to doubt a user's ability to withstand and safely absorb fall arrest forces or perform setup of equipment. Age, fitness, and health conditions can seriously affect the worker should a fall occur. Pregnant women and minors should not use this equipment.

*OSHA defines a Competent Person as "one who is capable of identifying existing and predictable hazards in the surroundings or working conditions which are unsanitary, hazardous, or dangerous to employees, and who has authorization to take prompt corrective measures to eliminate them". [29 CFR 1926.32(f)]

GUARDIAN FALL PROTECTION
PERFORMANCE SAFETY GEAR

IMPORTANT!

DO NOT HANG EQUIPMENT, RIGGING, OR STAGING FROM FALL PROTECTION ANCHOR POINTS.

TRAINING REQUIREMENTS:

The employer must ensure that each employee who might be exposed to fall hazards has been trained by a Competent or Qualified Person*. The training program must include the following:

- The ability to recognize the hazards of falling
- The procedures to be followed in order to minimize these hazards.
- All Relevant Federal, State, and local regulatory requirements, procedures, and standards
- Correct erecting, maintaining, disassembling, and inspection of the fall protection systems being used
- Use of personal fall arrest systems

*OSHA defines a Qualified Person as "One who has received training in and has demonstrated skills and knowledge in the construction and operation of electric equipment and installations and the hazards involved."

RESCUE PLAN:

The user is required to have a rescue plan and the means at hand to implement it when using the equipment. The plan shall be project specific. Employees shall be trained in self-rescue or alternate means shall be provided for prompt rescue in the event of a fall.

GUARDIAN FALL PROTECTION
PERFORMANCE SAFETY GEAR

IMPORTANT!

EQUIPMENT SUBJECTED TO THE FORCES OF A FALL MUST BE REMOVED FROM SERVICE IMMEDIATELY. CONTACT YOUR DISTRIBUTOR OR GUARDIAN ABOUT REPLACEMENT.

DESCRIPTION OF THE ABSORBINATOR:

Guardian Absorbinator Kit is a system that can be used for fall arrest or fall restraint. The Absorbinator is made of 316 Stainless Steel. All other components are galvanized steel unless otherwise noted. If a full stainless steel Absorbinator Kit is required, contact Guardian Fall Protection.

Please note that your kit may include two CB-1-B or two CB-1-W or two 6' Premium Cross Arm Straps.

For details on specific Absorbinator Kits and images of individual parts, please see the following pages.

DESCRIPTION OF THE ABSORBINATOR continued:

The following part numbers include the following components:

Absorbinator Part #15021

1 Absorbinator and 2 steel shackles

Absorbinator Kit Part #15044

1 Absorbinator, 2 steel shackles, 2 thimbles, and 1 turnbuckle and 4 fist grips

Absorbinator Deluxe Kit Part #15045

2 Absorbinators, 3 steel shackles, 1 turnbuckle, 2 thimbles and 4 fist grips.

Absorbinator Cross Arm Strap Kit Part #15070

1 Absorbinator, 2 steel shackles, 2 thimbles, 4 fist grips and 2 six foot premium cross-arm straps

Absorbinator CB-1-B Kit Part #15071

1 Absorbinator, 2 steel shackles, 2 thimbles, 4 fist grips and 2 CB-1-Bs

Absorbinator CB-1-W Kit Part #15072

1 Absorbinator, 2 steel shackles, 2 thimbles, 4 fist grips and 2 CB-1-Ws.

Deluxe Absorbinator Cross Arm Strap Kit Part #15073

2 Absorbinators, 3 steel shackles, 2 thimbles, 1 turnbuckle, 4 fist grips and 2 premium cross-arm straps.

Deluxe Absorbinator CB-1-B Kit Part #15074

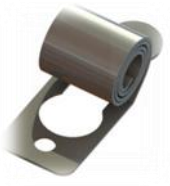
2 Absorbinators, 3 steel shackles, 2 thimbles, 1 turnbuckle, 4 fist grips and 2 CB-1-Bs.

Deluxe Absorbinator CB-1-W Kit Part#15075

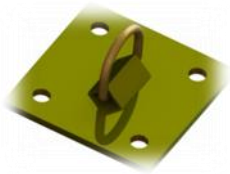
2 Absorbinators, 3 steel shackles, 2 thimbles, turnbuckle, 4 fist grips and 2 CB-1-Ws.

For individual images of components, see next page.

DESCRIPTION OF THE ABSORBINATOR continued:



Absorbinator



CB-1-B

CB-1-W

Steel Shackle

Thimble

Turnbuckle

Fist grip

6' Premium Cross Arm Strap

MAINTENANCE, CLEANING, AND STORAGE:

- Repairs to the Guardian Absorbinator can be made only by a Guardian representative, person or entity authorized by Guardian. Contact Guardian for maintenance and repair.
- Cleaning after use is important for maintaining the safety and life of the equipment.
- Cleanse the equipment of all dirt, corrosives, and contaminants.
- If the Absorbinator cannot simply be wiped clean use a mild soap and water, rinse, wipe to dry.
- Store the Absorbinator where it cannot be affected by heat, light, excessive moisture, oil, chemicals, or other degrading elements.

INSPECTION:

- Before each use, the worker must inspect all fall protection equipment.
- A formal inspection must be made by a Competent or Qualified Person other than the user at least every six months. Record the results of these inspections in the Inspection Log on page 20.
- Visually inspect all components of the Absorbinator Kits, looking for any signs corrosion, cracks, or deformation.
- Measure Absorbinator. Length should be no more than 10”.

WARNING!

IF ANY COMPONENT OF THE ABSORBINATOR DOES NOT PASS INSPECTION, REMOVE FROM SERVICE IMMEDIATELY. CONTACT GUARDIAN ABOUT RETURNING DAMAGED UNITS.

PRODUCT APPLICATION INFORMATION:

The Absorbinator is designed for use as a component of a Horizontal Lifeline System used for Personal Fall Arrest and Fall Restraint.

- **PERSONAL FALL ARREST:** The Absorbinator is used as a component of an approved Horizontal Lifeline System (HLL). An HLL can be used as anchor point for a Personal Fall Arrest System (PFAS) to protect the user in the event of a fall. PFAS typically include a full body harness, a connecting component, and a secure anchor point. When used for fall arrest, the structure to which the anchorage connector is attached must sustain static loads applied in the directions permitted by the fall arrest system of at least 3,600 lbs. with the certification of a Qualified Person, or 5,000 lbs. without certification. Do not tie off equipment. Maximum permissible fall is six (6) feet.

- **RESTRAINT:** The Absorbinator is used as a component of a Horizontal Lifeline System (HLL). An HLL can be used as an anchor point for a restraint system to prevent the user from reaching a fall hazard. Restraint systems typically include a full body harness, a lanyard or restraint line, and a secure anchor point. When used for fall restraint, the structure to which the anchor point is attached must sustain static loads applied in the directions permitted by the restraint system or at least 3,000 lbs. When more than one restraint system is in place, the strengths stated above must be multiplied by the number of restraint systems attached to the anchorage. NO VERTICAL FREE FALL IS PERMITTED.

APPLICABLE STANDARDS:

This product is designed to comply with OSHA and ANSI Z359.1 standards when used properly, and in accordance with manufacturer's instructions. Standards might include OSHA regulations, depending on the type of work being done and also might include state regulations if applicable. Consult regulatory agencies for more information on personal fall arrest systems and associated components.

IMPORTANT!

CONSULT WITH YOUR DOCTOR IF THERE IS REASON TO DOUBT YOUR FITNESS TO SAFELY ABSORB THE SHOCK FROM A FALL ARREST. AGE, FITNESS, AND HEALTH CONDITIONS CAN SERIOUSLY AFFECT A WORKER'S ABILITY TO WITHSTAND FALLS. PREGNANT WOMEN OR MINORS MUST NOT USE ANY GUARDIAN FALL PROTECTION EQUIPMENT.

LIMITATIONS:

- **CAPACITY:** The Absorbinator is designed for use by persons with a combined weight (clothing, tools, etc.) of no more than 310 lbs. using an approved connecting system. No more than two workers may be tied off for fall arrest or four workers for fall restraint at any one time.
- **FREE FALL:** Personal Fall Arrest Systems (PFAS) used with this equipment must be rigged to limit the freefall to six (6) feet as called out in ANSI Z359.1. Only qualified and personnel trained on the proper use of fall protection such as this anchor are allowed to use this product. Restraint systems must be rigged so that no vertical free fall is possible.

LIMITATIONS continued:

- **FALL CLEARANCE:** There must be sufficient clearance below the user to arrest a fall before the user strikes the ground or any other obstruction. A hazard assessment by a trained and Competent Person is recommended before any work is started that would include the use of fall protection. Please consult the clearance tables below to ensure proper clearance is being observed given the connector being used.
- **Note:** Table are for Fall Arrest ONLY. No Freefall Permitted with Fall Restraint.

Clearance Table Using Energy Absorbing Lanyards

Span Length (FT)	3 FT Lanyard	4 FT Lanyard	5 FT Lanyard	6 FT Lanyard
0-10	14' 10"	15' 11"	16' 11"	17' 11'
10-15	15' 7"	16' 7"	17' 7"	18' 7"
15-20	16' 2"	17' 2"	18' 2'	19' 2"
20-25	16' 11"	17' 11"	18' 11"	19' 11"
25-30	17' 6"	18' 6"	19' 6"	20' 6"
30-35	18' 2"	19' 2"	20' 2"	21' 2"
35-40	18' 10"	19' 10"	20' 10"	21' 10"
40-45	19' 6"	20' 6"	21' 6"	22' 6"
45-50	20' 1"	21' 1"	22' 1"	23' 1"
50-55	20' 10"	21' 10"	22' 10"	23' 1-"
55-60	21' 5"	22' 5"	23' 5"	24' 5"
60-65	22' 1"	23' 1"	24' 1"	25' 1"
65-70	22' 8"	23' 8"	24' 8"	25' 8"
70-75	23' 5"	24' 5"	25' 5"	26' 5"
75-80	24' 0"	25' 0"	26' 0"	27' 0"
80-85	24' 8"	25' 8"	26' 8"	27' 8"
85-90	25' 4"	26' 4"	27' 4"	28' 4"
90-95	26' 0"	27' 0"	28' 0"	29' 0"
95-100	26' 7"	27' 7"	28' 7"	29' 7"

LIMITATIONS continued:

Clearance Table Using a Self-Retracting Lifeline (SRL)

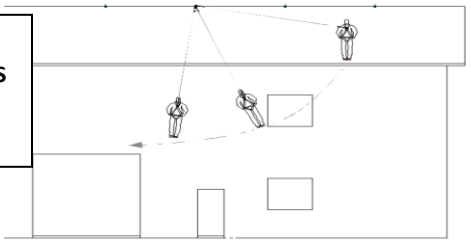
Span (FT)	Required Distance
0-10	6' 11"
10-20	8' 0"
20-30	9' 1"
30-40	10' 2"
40-50	11' 4"
50-60	12' 5"
60-70	13' 6"
70-80	14' 7'
80-90	15' 8"
90-100	16' 10"

IMPORTANT!

This table only applies when SRL and HLL are located above the level of the user and harness attachment point.

- **SWING FALLS:** Swing falls occur when the anchorage point is not directly above the point where a fall occurs. The force of striking an object in a swing fall may cause serious injury or death. Minimize the risk of swing falls by working as close to the anchorage point as possible. **Do NOT permit a swing falls as injuries could occur. Swing falls will significantly increase the clearance required when a self retracting lifeline or other variable length connecting system is used. The free fall from a swing fall must not be more than six feet.**

ATTACH TO OVERHEAD ANCHORS. SWING FALLS INCREASE FALL ARREST DISTANCE!



LIMITATIONS continued:

- **PLANNING YOUR SYSTEM:** As shown in Figure 1 below, there are potential Danger Zones for Swing Falls. To eliminate this threat, a different approach (with 4 HLL systems) is required as shown in Figure 2

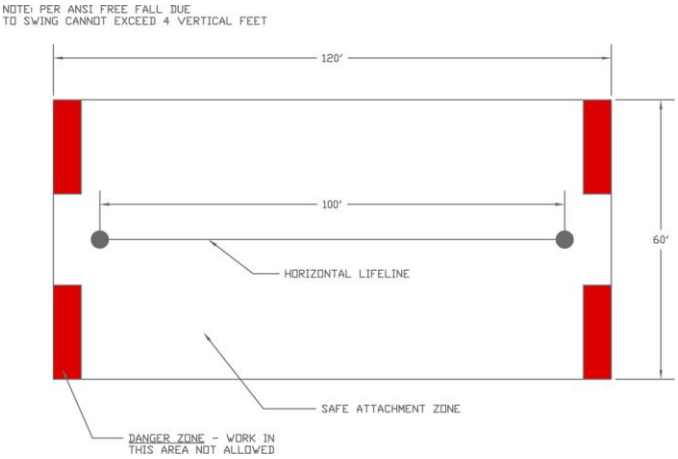


Figure 1

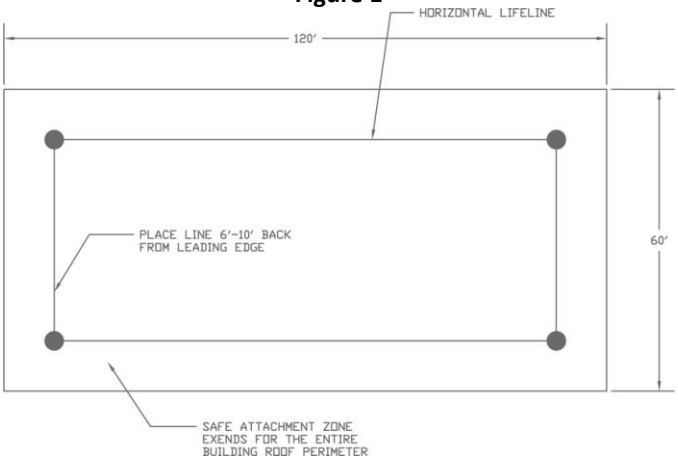


Figure 2

LIMITATIONS continued:

- **90 DEGREE ACCESS:** In the event that a 90 degree corner is needed, two HLL systems may be attached to a single anchor point as shown below.

- **POTENTIAL ENVIRONMENTAL HAZARDS:** Use of fall protection equipment in areas with environmental hazards may require additional precautions to prevent injury to the user or damage to the equipment. Hazards may include but are not limited to chemicals, corrosive environments, high voltage power lines, gases, moving machinery and sharp edges.

SYSTEM REQUIREMENTS:

- **COMPATIBILITY OF COMPONENTS:** Guardian Fall Protection equipment is designed to be used with Guardian approved components. Please contact Guardian if you have a question regarding compatibility. Making substitutions without approval from Guardian may lead to injuries and/or death by compromising the safety and reliability of the complete system. A Qualified Person can make a determination on compatibility of equipment from different manufacturers.

SYSTEM REQUIREMENTS continued:

- **COMPATIBILITY OF CONNECTORS:** Connectors (D-Rings, hooks, carabiners) must be capable of supporting at least 5,000 lbs. Non-compatible connectors may unintentionally disengage. Self-locking snap hooks and carabiners are *required* by ANSI and OSHA. Connectors must be compatible in size, shape, and strength.
- **MAKING CONNECTIONS:** Only use self-locking snap hooks and carabiners with any Guardian equipment. If you have any questions on compatibility, please call Guardian.

WARNING!

LARGE THROAT OPENING SNAPHOOKS SHOULD NOT BE CONNECTED TO STANDARD SIZE D-RINGS OR SIMILAR OBJECTS WHICH WILL RESULT IN A LOAD ON THE GATE IF THE HOOK OR D-RING TWISTS OR ROTATES.

PRIOR TO EACH USE:

- Fall protection passive and active equipment shall be inspected by the user for defects, damage, or deterioration.
- Any suspected defective equipment shall be removed from service.
- If the manufacturer's label is not legible or is missing, the equipment shall be removed from service.
- If it is necessary to remove the Absorbinator during a portion of a particular job, make sure to re-secure the unit before resuming work.

BEFORE INSTALLING THE ABSORBINATOR:

- The Absorbinator is used as part of a Horizontal Lifeline (HLL) System. Typical HLL Systems include cable, a turnbuckle tensioner, cable clamps, anchor points (such as Guardian CB-12s), an impact anchor (such as the Guardian Absorbinator), and fasteners.
- Please note that only one Absorbinator is required in a HLL system of 60 feet or less. For HLL systems over 60 feet, two Absorbinators are required with one turnbuckle on one end. The maximum length of an HLL system with two Absorbinators is 100 feet.
- Check your end anchorage attachments to ensure they meet the required strength. The Absorbinator Kit is designed to have end anchorage attachments which are designed for an ultimate load of 5,000 lbs. All allowable spans of the Absorbinator Kit limit end anchor loadings to less than 5,000 lbs.
- Align the anchors using a string line between the end anchorage points.
- Please note that intermediate anchor points are not required on this system. However, Guardian recommends that intermediate anchor points be installed at 20’ intervals for single point tie off points in the event that an HLL isn’t installed or is removed.
- Secure any unsecured anchor points.
- Unroll the cable and straighten it to remove all of the loops.

WARNING!

THIS IS A PRE-ENGINEERED SYSTEM. FOR TESTING AND OTHER DOCUMENTATION OR FOR USE IN ANY APPLICATION OTHER THAN WHAT IS SPECIFIED IN THESE INSTRUCTIONS, PLEASE CONTACT GUARDIAN.

INSTALING THE ABSORBINATOR SYSTEM:

Tools Needed For Installation:

5/16” (24mm) Wrench
3/4” (19mm) Wrench
19/32” (15 mm) Wrench
Adjustable Wrench
Torque Wrench

Step 1: Decide the locations of the Anchorage Ends for the Horizontal Lifeline System. Ensure that they meet the required anchorage strength. Ensure that proper clearance exists using the tables on the previous pages.

Step 2: Lay out as much of the HLL system as possible before attaching it to the anchorage.

Step 3: Ensure that all unattached anchor points have been attached.

Step 4: Adjust the turnbuckle to the extended position.

TURNBUCKLE CLOSED

IMPORTANT!

USE ONLY 3/8” WIRE ROPE.
DO NOT USE PLASTIC COATED WIRE ROPE.

INSTALING THE ABSORBINATOR SYSTEM continued:

Step 5: Attach the Absorbinator to the anchor point using the steel shackle provided. If your system is more than 60', attach the second Absorbinator to the anchor point at the other end using the steel shackle provided. Tighten to the point where at least one thread is showing.

WARNING!

NOT FOR USE AS A VERTICAL LIFELINE SYSTEM.

Step 6: Attach one end of the turnbuckle to the Absorbinator, tightening the bolt until at least one thread is showing.

Step 7: Place the provided wire rope thimble on the other end of the turnbuckle. Tighten the bolt so that at least one thread is showing.

TIGHTENING BOLTS ON THE ABSORBINATOR SYSTEM

YES

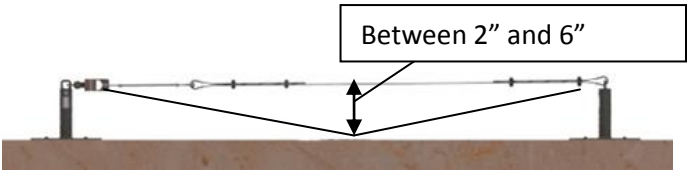
NO

Step 8: Take one end of the 3/8 Wire Rope and create a loop around the thimble. Use the highlighted portions of Appendix A beginning on Page 21 to correctly install fist grips.

INSTALING THE ABSORBINATOR SYSTEM continued:

Step 9: Repeat Step 8 on the opposite side of the system.

Step 10: Tighten the turnbuckle evenly on both ends only to a degree that most of the slack is removed from the cable.



Ensure that the line at least 2” but less than 6” of sag when measured vertically at the midpoint of the span.

LABELS:

This label must be present and legible on the Guardian Absorbinator at all times.

absorbinator
Energy Absorber for Horizontal Lifeline Systems
SPECIFICATIONS
Material: Stainless Steel
Peak Dynamic Pullout Load: 2,500lbs
Average Dynamic Pullout Load: 2,000lbs
Maximum Elongation: 48½ inches
Tensile Strength: 5,000lbs
⚠ WARNING
THIS HLL ENERGY ABSORBER IS TO ONLY BE USED AS PART OF A COMPLETE FALL ARREST SYSTEM. AT NO POINT IS THIS TO BE USED AS A PERSONAL ENERGY ABSORBER. THE ABSORBINATOR MUST BE USED WITH AN APPROVED HORIZONTAL LIFELINE OR INSTALLED AND DESIGNED UNDER THE SUPERVISION OF A QUALIFIED PERSON WITH A SAFETY FACTOR OF AT LEAST TWO. READ AND FULLY UNDERSTAND THE MANUFACTURER'S INSTRUCTIONS SUPPLIED WITH THIS EQUIPMENT. FAILING TO DO SO MAY RESULT IN SERIOUS INJURY OR DEATH!
Model #15021 Made in USA
GUARDIAN FALL PROTECTION
PERFORMANCE SAFETY GEAR
(800) 466.6385 phone (800) 670.7892 fax
www.guardianfall.com

APPENDIX A:

CROSBY FIST GRIP CLIPS

WARNINGS AND APPLICATION INSTRUCTIONS

New Style Fist Grip®
3/16" - 5/8"

WARNING!

- **Failure to read, understand, and follow these instructions may cause death or serious injury.**
- **Read and understand these instructions before using clips.**
- **Match the same size clip to the same size wire rope.**
- **Do not mismatch Crosby clips with other manufacturers clips.**
- **Prepare wire rope end termination only as instructed**
- **Do not use plastic coated wire rope.**
- **Apply first load to test the assembly. This load should be of equal or greater weight than loads expected in use. Next, check and retighten nuts to recommended torque (See Table 1, page 23).**

Efficiency ratings for wire rope end terminations are based upon the catalog breaking strength of wire rope. The efficiency rating of a properly prepared loop or thimble-eye termination for clip sizes 1/8" through 7/8" is 80%, and for sizes 1" through 3- 1/2" is 90%.

APPENDIX A continued:

The number of clips shown (see Table 1) is based upon using RRL or RLL wire rope, 6 x 19 or 6 x 37 Class, FC or IWRC; IPS or XIP, XXIP. If Seale construction or similar large outer wire type construction in the 6 x 19 Class is to be used for sizes 1 inch and larger, add one additional clip. If a pulley (sheave) is used for turning back the wire rope, add one additional clip.
The number of clips shown also applies to rotation - resistant RRL wire rope, 8 x 19 Class, IPS, XIP, XXIP sizes 1-1/2 inch and smaller; and to rotation-resistant RRL wire rope, 19 x 7 Class, IPS, XIP, XXIP sizes 1-1/2 inch and smaller.
For other classes of wire rope not mentioned above, we recommend contacting Crosby Engineering at the address or telephone number on the back cover to ensure the desired efficiency rating.
The style of wire rope termination used for any application is the obligation of the user.

For OSHA (Construction) applications, see OSHA 1926.251

1. Refer to Table 1 in following these instructions. Turn back specified amount of rope from thimble or loop. Apply first clip one base width from dead end of rope. Use torque wrench to tighten evenly, alternating from one nut to the other until reaching the recommended torque.

FIGURE 1

2. When two clips are required, apply the second clip as near the loop or thimble as possible. Use torque wrench to tighten evenly, alternating until reaching the recommended torque. When more than two clips are required, apply the second clip as near the loop or thimble as possible, turn nuts on second clip firmly, but do not tighten. Proceed to Step 3.

FIGURE 2

APPENDIX A continued:

3. When three or more clips are required, space additional clips equally between first two - take up rope slack - use torque wrench to tighten on each Clip evenly, alternating from one nut to the other until reaching recommended torque.

FIGURE 3

4. If a pulley (sheave) is used in place of a thimble, add one additional Fist Grip. Fist Grip spacing should be as shown.

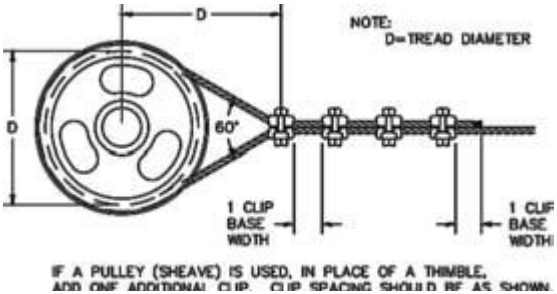


FIGURE 4

5. **WIRE ROPE SPLICING PROCEDURES:** The preferred method of splicing two wire ropes together is to use interlocking turnback eyes with thimbles, using the recommended number of clips on each eye (See Figure 5).

FIGURE 5

APPENDIX A continued:

WIRE ROPE SPLICING PROCEDURES CONT.:
An alternate method is to use twice the number of clips as used for a turnback termination. The rope ends are placed parallel to each other, overlapping by twice the turnback amount shown in the application instructions.The minimum number of clips should be installed on each dead end (See Figure 6). Spacing, installation torque, and other instructions still apply.

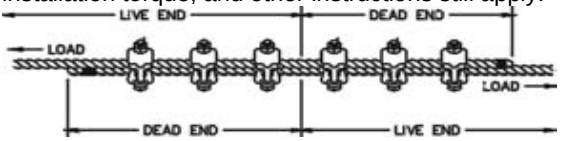


FIGURE 6

6. **IMPORTANT** Apply first load to test the assembly. This load should be of equal or greater weight than loads expected in use. Next, check and use torque wrench to retighten to recommended torque. In accordance with good rigging and maintenance practices, the wire rope end termination should be inspected periodically for wear, abuse, and general adequacy.

Table 1

Clips Size (in.)	Rope Size (in.)	Minimum No. of Clips	Amount of Rope to Turn Back in Inches	* Torque in Ft. Lbs.
3/16	3/16	2	4	30
1/4	1/4	2	4	30
5/16	5/16	2	5	30
3/8	3/8	2	5-1/4	45
7/16	7/16	2	6-1/2	65
1/2	1/2	3	11	65
9/16	9/16	3	12-3/4	130
5/8	5/8	3	13-1/2	130
3/4	3/4	3	16	225
7/8	7/8	4	26	225
1	1	5	37	225
1-1/8	1-1/8	5	41	360
1-1/4	1-1/4	6	55	360
1-3/8	1-3/8	6	62	500
1-1/2	1-1/2	7	78	500

If a pulley (sheave) is used for turning back the wire rope, add one additional clip. See Figure 4.

If a greater number of clips are used than show in the table, the amount of turn-back should be increased proportionately.

* The tightening torque values shown are based upon the threads being clean, dry, and free of lubrication.

INSPECTION LOG:

USER MUST INSPECT EQUIPMENT BEFORE EACH USE. COMPETENT PERSON TO INSPECT AND INITIAL AT LEAST EVERY 6 MONTHS. **Date of First Use_____**												
YR.	J	F	M	A	M	J	J	A	S	O	N	D

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